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TITLE

CYTOKINE AND INTERFERON STATUS STATE IN MEN AND WOMEN WITH CHRONIC UROGENITAL INFECTION

AUTHOR/S

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ABSTRACT

Context. Herpes Simplex Virus of type 2 and Chlamydia trachomatis are observed qualitative changes of the infective process course, consequently the clinical picture appears to acquire certain characteristics and varies substantially from that inherent to certain monoinfections. Objective. To analyze IL-13, IFN? and TGF?1 levels in males and females with chronic urogenital infection. Materials and methods. 80 males and 80 females had undergone a medical examination for sexually transmitted infections. Patients of the main group were subdivided into 3 subgroups: patients with chronic viral urethritis, patients with viral-bacterial urethritis and patients with bacterial urethritis. Cytokine levels in the venous blood serum were determined by the solid-phase sandwich method EIA. Results. Elevated IL-13 level was found in female groups with the herpetic infection and the concurrent infection origin versus controls. IFN? values in the female group with viral urethritis were not different from reference limits. TGF?1 level was statistically significantly lower controls' values only in the female group with bacterial urethritis (?u<0.05). IL-13 values in male groups with viral urethritis and the concurrent infection were significantly higher IL-13 values in male groups with bacterial urethritis. IFN? level in the examined groups was within the accepted reference limits. TGF?1 values were maximal in male group with the mixed urethritis. Conclusion. The most expressed alterations were found in the female with mixed urethritis, due to the fibrosing mediators' high activity and IFN? low level, enabling appearing the persistent chlamydia forms. Patients of both genders in groups with mixed urethritis demonstrated both IL-13 and TGF?1 high levels; however women showed significant IFN? level decline, while males did not demonstrated alterations in IFN? content.

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